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In the Claims

1. (Currently Amended) A pharmaceutical composition comprising:

an aqueous carrier;

- from 0.1 mg/ml to 20 mg/ml of the composition of a pharmaceutically acceptable salt of
- a) a peptide comprising at least 12 and at most 30 consecutive amino acids having a sequence corresponding to
 - (i) a sequence of amino acids found within a complementarity-determining region (CDR) of a heavy or a light chain of a human monoclonal anti-DNA 16/6 Id antibody, or
 - (ii) a sequence of amino acids found within a complementarity-determining region (CDR) of a heavy or a light chain of a pathogenic anti-DNA monoclonal antibody that induces a systemic lupus erythematosus (SLE)-like disease response in mice, or
- b) a peptide comprising consecutive amino acids having the sequence
 - (i) $TGYYX_1X_2X_3X_4X_5QSPEKSLEWIG$ (SEQ ID NO:11) wherein X_1 is Met, Ala or Val; X_2 is Gln, Asp, Glu or Arg; X_3 is Trp or Ala; X_4 is Val or Ser; and X_5 is Lys, Glu or Ala;
 - (ii) EINPSTGGX $_6$ X $_7$ X $_8$ X $_9$ X $_{10}$ X $_{11}$ X $_{12}$ KAKAT (SEQ ID NO:12) wherein X $_6$ and X $_7$ are each Thr, Val or Ala; X $_8$ is Tyr or Phe; X $_9$ is Asn or Asp; X $_{10}$ is Gln or Glu; X $_{11}$ is Lys or Glu, and X $_{12}$ is Phe or Tyr;

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- (iii) YYCAR $X_{13}X_{14}X_{15}X_{16}$ PYA $X_{17}X_{18}$ YWGQGS (SEQ ID NO:13) wherein X_{13} is Phe, Thr or Gly; X_{14} is Leu, Ala or Ser; X_{15} is Trp or Ala; X_{16} is Glu or Lys; X_{17} is Met or Ala, and X_{18} is Asp, Lys or Ser;
- (iv) $GYNX_{19}X_{20}X_{21}X_{22}X_{23}X_{24}SHGX_{25}X_{26}LEWIG$ (SEQ ID NO:14) wherein X_{19} is Met or Ala; X_{20} is Asn, Asp or Arg; X_{21} is Trp or Ala; X_{22} is Val or Ser; X_{23} is Lys or Glu; X_{24} is Gln or Ala; X_{25} is Lys or Glu, and X_{26} is Ser or Ala;
- (v) YYCAR $X_{27}X_{28}X_{29}YGX_{30}X_{31}X_{32}GQTL$ (SEQ ID NO:15) wherein X_{27} is Ser or Phe; X_{28} is Gly or Ala; X_{29} is Arg, Ala or Glu; X_{30} is Asn or Asp; X_{31} is Tyr or Phe, and X_{32} is Trp, His or Ala;
- (vi) X₃₃YYWSWIX₃₄QX₃₅PX₃₆X₃₇GX₃₈EWIG (SEQ ID NO:16) wherein X₃₃ is Gly or Thr Gly; X₃₄ is Arg or Lys; X₃₅ is Pro or Ser; X₃₆ is Gly or Glu; X₃₇ is Lys or Asp; and X₃₈ is Glu, Leu or Ser;
- (vii) YYCARX₃₉LLX₄₀X₄₁X₄₂X₄₃X₄₄DVDYX₄₅GX₄₆DV (SEQ ID NO:17)

wherein X_{39} is Gly or Phe; X_{40} is Arg or Ala; X_{41} is Gly or Ala; X_{42} is Gly or Ala; X_{43} is Trp or Ala; X_{44} is Asn or Ala; X_{45} is Tyr or Trp; X_{46} is Met or Gln;

- (viii) FSGYYWS (SEQ ID NO:8);
- (ix) EINHSGSTNYKTSLKS (SEQ ID NO:9); or
- (x) GLLRGGWNDVDYYYGMDV (SEQ ID NO:10), or
- a peptide comprising consecutive amino acids having a sequence of any of a) and b), or at least two of the sequences in (a)(i), (a)(ii) and (b)(i) through (b)(x), or
- d) a peptide comprising consecutive amino acids having

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a sequence comprising at least two identical sequences included in (a)(i), (a)(ii) and (b)(i) through (b)(x); and

a solubility enhancer selected from the group consisting of dimethyl-acetamide, polyethylene glycol, polyoxylated castor oil, N-methyl-2-pyrrolidinone, 1-ethenyl-2-pyrrolidinone, polyoxyethylene sorbitan esters, and a substituted β -cyclodextrin,

wherein both the peptide and the solubility enhancer are dissolved in the aqueous carrier; and

wherein the <u>pharmaceutical</u> composition has a pH between 4 and 9.

- (Original) The pharmaceutical composition of claim 1, wherein at least 0.5 mg/ml of the composition is the pharmaceutically acceptable salt of the peptide.
- 3. (Previously Presented) The pharmaceutical composition of claim 1, wherein the peptide has a sequence selected from the group consisting of:
 - NH_2- Thr Gly Tyr Tyr Met Gln Trp Val Lys Gln Ser Pro Glu Lys Ser Leu Glu-Trp Ile Gly-COOH (SEQ ID NO:1);
 - NH_2 Glu Ile Asn Pro Ser Thr Gly Gly Thr Thr Tyr Asn Gln Lys Phe Lys Ala Lys Ala Thr-COOH (SEQ ID NO:2);
 - NH_2- Tyr Tyr Cys Ala Arg Phe Leu Trp Glu Pro Tyr Ala Met Asp Tyr Trp Gly Gln Gly Ser-COOH (SEQ ID NO:3);
 - NH_2- Gly Tyr Asn Met Asn Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile Gly-COOH (SEQ ID NO:4);
 - NH_2- Tyr Tyr Cys Ala Arg Ser Gly Arg Tyr Gly Asn Tyr Trp Gly

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Gln Thr Leu -COOH (SEQ ID NO:5);

NH₂-Gly Tyr Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Glu Glu Trp Ile Gly-COOH (SEQ ID NO:6);

NH₂-Tyr Tyr Cys Ala Arg Gly Leu Leu Arg Gly Gly Trp Asn Asp Val Asp Tyr Tyr Gly Met Asp Val-COOH (SEQ ID NO:7);

 NH_2 - Phe Ser Gly Tyr Tyr Trp Ser-COOH (SEQ ID NO:8);

 NH_2- Glu Ile Asn His Ser Gly Ser Thr Asn Tyr Lys Thr Ser Leu Lys Ser-COOH (SEQ ID NO:9); and

NH2- Gly Leu Leu Arg Gly Gly Trp Asn Asp Val Asp Tyr Tyr Tyr Gly Met Asp Val-COOH (SEQ ID NO:10).

4. (Original) The pharmaceutical composition of claim 1, wherein the peptide comprises consecutive amino acids having the sequence

 $X_{33}YYWSWIX_{34}QX_{35}PX_{36}X_{37}GX_{38}EWIG$ (SEQ ID NO:16) wherein X_{33} is Gly or Thr Gly; X_{34} is Arg or Lys; X_{35} is Pro or Ser; X_{36} is Gly or Glu; X_{37} is Lys or Asp; and X_{38} is Glu, Leu or Ser.

- 5. (Previously Presented) The pharmaceutical composition of claim 1, wherein the solubility enhancer is a substituted β -cyclodextrin.
- 6. (Original) The pharmaceutical composition of claim 5, wherein the substituted β -cyclodextrin is a hydroxypropyl, a sulfobutyl ether, or asulfopropyl ether substituted β -cyclodextrin.
- 7. (Original) The pharmaceutical composition of claim 6, wherein the substituted β -cyclodextrin is a substituted sulfobutyl ether β -cyclodextrin.

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- 8. (Previously Presented) The pharmaceutical composition of claim 1, wherein the concentration of peptide in solution is at least 1 mg/ml.
- 9. (Previously Presented) The pharmaceutical composition of claim 1, wherein the concentration of peptide in solution is at least 2.5 mg/ml.
- 10. (Previously Presented) The pharmaceutical composition of claim 1, wherein the composition has a pH between 6.5 and 8.5.
- 11. (Currently Amended) The pharmaceutical composition of claim 10, wherein the <u>pharmaceutical</u> composition has a pH between 7.5 and 8.5.
- 12. (Previously Presented) The pharmaceutical composition of claim 1, wherein the pharmaceutically acceptable salt is an acetate salt.
- 13. (Original) The pharmaceutical composition of claim 5, wherein the pharmaceutically acceptable salt is an acetate salt, and the substituted β -cyclodextrin is hepta-(sulfobutyl ether)- β -cyclodextrin.
- 14. (Withdrawn) A method of alleviating symptoms of systemic lupus erythematosus (SLE) in a human subject comprising administering to the human subject the pharmaceutical composition of claim 1 in an amount effective to alleviate the symptoms of the SLE in the human subject.

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- 15. (Canceled)
- 16. (Currently Amended) A process for manufacturing the pharmaceutical composition of claim 1, comprising the steps of:
 - a) preparing a solution of dimethyl-acetamide, polyethylene glycol, polyoxylated castor oil, N-methyl-2-pyrrolidinone, 1-ethenyl-2-pyrrolidinone, polyoxyethylene sorbitan esters, or a substituted β -cyclodextrin in an aqueous carrier at a predetermined concentration;
 - b) adding a predetermined amount of a pharmaceutically acceptable salt of
 - 1) a peptide comprising at least 12 and at most 30 consecutive amino acids having a sequence corresponding to
 - (i) a sequence of amino acids found within a complementarity-determining region (CDR) of a heavy or a light chain of a human monoclonal anti-DNA 16/6 Id antibody, or
 - (ii) a sequence of amino acids found within a complementarity-determining region (CDR) of a heavy or a light chain of a pathogenic anti-DNA monoclonal antibody that induces a systemic lupus erythematosus (SLE)-like disease response in mice,
 - 2) a peptide comprising amino acids having the sequence
 - (i) $TGYYX_1X_2X_3X_4X_5QSPEKSLEWIG$ (SEQ ID NO:11) wherein X_1 is Met, Ala or Val; X_2 is Gln, Asp,

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Glu or Arg; X_3 is Trp or Ala; X_4 is Val or Ser; and X_5 is Lys, Glu or Ala;

- (ii) EINPSTGGX $_6$ X $_7$ X $_8$ X $_9$ X $_{10}$ X $_{11}$ X $_{12}$ KAKAT (SEQ ID NO:12) wherein X $_6$ and X $_7$ are each Thr, Val or Ala; X $_8$ is Tyr or Phe; X $_9$ is Asn or Asp; X $_{10}$ is Gln or Glu; X $_{11}$ is Lys or Glu, and X $_{12}$ is Phe or Tyr;
- (iii) YYCAR $X_{13}X_{14}X_{15}X_{16}$ PYA $X_{17}X_{18}$ YWGQGS (SEQ ID NO:13) wherein X_{13} is Phe, Thr or Gly; X_{14} is Leu, Ala or Ser; X_{15} is Trp or Ala; X_{16} is Glu or Lys; X_{17} is Met or Ala, and X_{18} is Asp, Lys or Ser;
- (iv) $GYNX_{19}X_{20}X_{21}X_{22}X_{23}X_{24}SHGX_{25}X_{26}LEWIG$ (SEQ ID NO:14) wherein X_{19} is Met or Ala; X_{20} is Asn, Asp or Arg; X_{21} is Trp or Ala; X_{22} is Val or Ser; X_{23} is Lys or Glu; X_{24} is Gln or Ala; X_{25} is Lys or Glu, and X_{26} is Ser or Ala;
- (v) YYCAR $X_{27}X_{28}X_{29}YGX_{30}X_{31}X_{32}GQTL$ (SEQ ID NO:15) wherein X_{27} is Ser or Phe; X_{28} is Gly or Ala; X_{29} is Arg, Ala or Glu; X_{30} is Asn or Asp; X_{31} is Tyr or Phe, and X_{32} is Trp, His or Ala;
- (vi) $X_{33}YYWSWIX_{34}QX_{35}PX_{36}X_{37}GX_{38}EWIG$ (SEQ ID NO:16) wherein X_{33} is Gly or Thr Gly; X_{34} is Arg or Lys; X_{35} is Pro or Ser; X_{36} is Gly or Glu; X_{37} is Lys or Asp; and X_{38} is Glu, Leu or Ser;
- (vii) YYCARX39LLX40X41X42X43X44DVDYX45GX46DV (SEQ ID NO:17)
 wherein X39 is Gly or Phe; X40 is Arg or Ala; X41
 is Gly or Ala; X42 is Gly or Ala; X43 is Trp or
 Ala; X44 is Asn or Ala; X45 is Tyr or Trp; X46 is
 Met or Gln;
- (viii) FSGYYWS (SEQ ID NO:8);
- (ix) EINHSGSTNYKTSLKS (SEQ ID NO:9); or
- (x) GLLRGGWNDVDYYYGMDV (SEQ ID NO:10), or

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- 3) a peptide comprising consecutive amino acids having a sequence of any of a) and b), or at least two of the sequences in (a)(i), (a)(ii) and (b)(i) through (b)(x), or
- 4) a peptide comprising consecutive amino acids having a sequence comprising at least two identical sequences included in (a)(i), (a)(ii) and (b)(i) through (b)(x);
- c) adjusting the pH of the solution of step b) until the peptide dissolves in the solution; and
- d) if necessary, adjusting the pH of the solution of step c) to a pH of 4-9, thereby manufacturing the pharmaceutical composition.

Claims 17-23. (Canceled)

- 24. (Previously Presented) A composition prepared by the process of claim 16.
- 25. (Original) A lyophilized pharmaceutical composition comprising from 0.1 mg/ml to 20 mg/ml of the composition of a pharmaceutically acceptable salt of
 - a) a peptide comprising at least 12 and at most 30 consecutive amino acids having a sequence corresponding to
 - (i) a sequence of amino acids found within a complementarity-determining region (CDR) of a heavy or a light chain of a human monoclonal anti-DNA 16/6 Id antibody, or
 - (ii) a sequence of amino acids found within a complementarity-determining region (CDR) of a

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heavy or a light chain of a pathogenic anti-DNA monoclonal antibody that induces a systemic lupus erythematosus (SLE)-like disease response in mice, or

- b) a peptide comprising consecutive amino acids having the sequence
 - (i) $TGYYX_1X_2X_3X_4X_5QSPEKSLEWIG$ (SEQ ID NO:11) wherein X_1 is Met, Ala or Val; X_2 is Gln, Asp, Glu or Arg; X_3 is Trp or Ala; X_4 is Val or Ser; and X_5 is Lys, Glu or Ala;
 - (ii) $EINPSTGGX_6X_7X_8X_9X_{10}X_{11}X_{12}KAKAT$ (SEQ ID NO:12) wherein X_6 and X_7 are each Thr, Val or Ala; X_8 is Tyr or Phe; X_9 is Asn or Asp; X_{10} is Gln or Glu; X_{11} is Lys or Glu, and X_{12} is Phe or Tyr;
 - (iii) YYCAR $X_{13}X_{14}X_{15}X_{16}$ PYA $X_{17}X_{18}$ YWGQGS (SEQ ID NO:13) wherein X_{13} is Phe, Thr or Gly; X_{14} is Leu, Ala or Ser; X_{15} is Trp or Ala; X_{16} is Glu or Lys; X_{17} is Met or Ala, and X_{18} is Asp, Lys or Ser;
 - (iv) $GYNX_{19}X_{20}X_{21}X_{22}X_{23}X_{24}SHGX_{25}X_{26}LEWIG$ (SEQ ID NO:14) wherein X_{19} is Met or Ala; X_{20} is Asn, Asp or Arg; X_{21} is Trp or Ala; X_{22} is Val or Ser; X_{23} is Lys or Glu; X_{24} is Gln or Ala; X_{25} is Lys or Glu, and X_{26} is Ser or Ala;
 - (v) YYCAR $X_{27}X_{28}X_{29}YGX_{30}X_{31}X_{32}GQTL$ (SEQ ID NO:15) wherein X_{27} is Ser or Phe; X_{28} is Gly or Ala; X_{29} is Arg, Ala or Glu; X_{30} is Asn or Asp; X_{31} is Tyr or Phe, and X_{32} is Trp, His or Ala;
 - (vi) X₃₃YYWSWIX₃₄QX₃₅PX₃₆X₃₇GX₃₈EWIG (SEQ ID NO:16) wherein X₃₃ is Gly or Thr Gly; X₃₄ is Arg or Lys; X₃₅ is Pro or Ser; X₃₆ is Gly or Glu; X₃₇ is Lys or Asp; and X₃₈ is Glu, Leu or Ser;

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(vii) YYCARX₃₉LLX₄₀X₄₁X₄₂X₄₃X₄₄DVDYX₄₅GX₄₆DV (SEQ ID NO:17) wherein X_{39} is Gly or Phe; X_{40} is Arg or Ala; X_{41} is Gly or Ala; X_{42} is Gly or Ala; X_{43} is Trp or Ala; X_{44} is Asn or Ala; X_{45} is Tyr or Trp; X_{46} is Met or Gln;

(viii) FSGYYWS (SEQ ID NO:8);

- (ix) EINHSGSTNYKTSLKS (SEQ ID NO:9); or
- (x) GLLRGGWNDVDYYYGMDV (SEQ ID NO:10), or
- a peptide comprising consecutive amino acids having a sequence of any of a) and b), or at least two of the sequences in (a)(i), (a)(ii) and (b)(i) through (b)(x), or
- d) a peptide comprising consecutive amino acids having a sequence comprising at least two identical sequences included in (a)(i), (a)(ii) and (b)(i) through (b)(x); and

a solubility enhancer selected from the group consisting of dimethyl-acetamide, polyethylene glycol, polyoxylated castor oil, N-methyl-2-pyrrolidinone, 1-ethenyl-2-pyrrolidinone, polyoxyethylene sorbitan esters, and a substituted β -cyclodextrin.

26. (Canceled)

- 27. (Currently Amended) A process for manufacturing the lyophilized pharmaceutical composition of claim 25, comprising the steps of:
 - a) preparing a solution of dimethyl-acetamide, polyethylene glycol, polyoxylated castor oil, N-methyl-2-pyrrolidinone,
 1-ethenyl-2-

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pyrrolidinone, polyoxyethylene sorbitan esters, or a substituted β -cyclodextrin in an aqueous carrier—at a predetermined concentration;

- b) adding a predetermined amount of a pharmaceutically acceptable salt of
 - 1) a peptide comprising at least 12 and at most 30 consecutive amino acids having a sequence corresponding to
 - (i) a sequence of amino acids found within a complementarity-determining region (CDR) of a heavy or a light chain of a human monoclonal anti-DNA 16/6 Id antibody, or
 - (ii) a sequence of amino acids found within a complementarity-determining region (CDR) of a heavy or a light chain of a pathogenic anti-DNA monoclonal antibody that induces a systemic lupus erythematosus (SLE)-like disease response in mice,
 - 2) a peptide comprising amino acids having the sequence
 - (i) $TGYYX_1X_2X_3X_4X_5QSPEKSLEWIG$ (SEQ ID NO:11) wherein X_1 is Met, Ala or Val; X_2 is Gln, Asp, Glu or Arg; X_3 is Trp or Ala; X_4 is Val or Ser; and X_5 is Lys, Glu or Ala;
 - (ii) EINPSTGGX $_6$ X $_7$ X $_8$ X $_9$ X $_{10}$ X $_{11}$ X $_{12}$ KAKAT (SEQ ID NO:12) wherein X $_6$ and X $_7$ are each Thr, Val or Ala; X $_8$ is Tyr or Phe; X $_9$ is Asn or Asp; X $_{10}$ is Gln or Glu; X $_{11}$ is Lys or Glu, and X $_{12}$ is Phe or Tyr;
 - (iii) YYCAR $X_{13}X_{14}X_{15}X_{16}$ PYA $X_{17}X_{18}$ YWGQGS (SEQ ID NO:13) wherein X_{13} is Phe, Thr or Gly; X_{14} is Leu, Ala or Ser; X_{15} is Trp or Ala; X_{16} is Glu or Lys; X_{17}

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is Met or Ala, and X_{18} is Asp, Lys or Ser;

- (iv) $GYNX_{19}X_{20}X_{21}X_{22}X_{23}X_{24}SHGX_{25}X_{26}LEWIG$ (SEQ ID NO:14) wherein X_{19} is Met or Ala; X_{20} is Asn, Asp or Arg; X_{21} is Trp or Ala; X_{22} is Val or Ser; X_{23} is Lys or Glu; X_{24} is Gln or Ala; X_{25} is Lys or Glu, and X_{26} is Ser or Ala;
- (v) YYCAR $X_{27}X_{28}X_{29}YGX_{30}X_{31}X_{32}GQTL$ (SEQ ID NO:15) wherein X_{27} is Ser or Phe; X_{28} is Gly or Ala; X_{29} is Arg, Ala or Glu; X_{30} is Asn or Asp; X_{31} is Tyr or Phe, and X_{32} is Trp, His or Ala;
- (vi) X₃₃YYWSWIX₃₄QX₃₅PX₃₆X₃₇GX₃₈EWIG (SEQ ID NO:16)
 wherein X₃₃ is Gly or Thr Gly; X₃₄ is Arg or Lys;
 X₃₅ is Pro or Ser; X₃₆ is Gly or Glu; X₃₇ is Lys
 or Asp; and X₃₈ is Glu, Leu or Ser;
- (vii) YYCARX₃₉LLX₄₀X₄₁X₄₂X₄₃X₄₄DVDYX₄₅GX₄₆DV (SEQ ID NO:17)
 wherein X₃₉ is Gly or Phe; X₄₀ is Arg or Ala; X₄₁
 is Gly or Ala; X₄₂ is Gly or Ala; X₄₃ is Trp or
 Ala; X₄₄ is Asn or Ala; X₄₅ is Tyr or Trp; X₄₆ is
 Met or Gln;
- (viii) FSGYYWS (SEQ ID NO:8);
- (ix) EINHSGSTNYKTSLKS (SEQ ID NO:9); or
- (x) GLLRGGWNDVDYYYGMDV (SEQ ID NO:10), or
- 3) a peptide comprising consecutive amino acids having a sequence of any of a) and b), or at least two of the sequences in (a)(i), (a)(ii) and (b)(i) through (b)(x), or
- 4) a peptide comprising consecutive amino acids having a sequence comprising at least two identical sequences included in (a)(i), (a)(ii) and (b)(i) through (b)(x);

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- c) adjusting the pH of the solution of step b) until the peptide dissolves in the solution;
- d) if necessary, adjusting the pH of the solution of step
 c) to a pH of 4-9, thereby manufacturing the pharmaceutical composition; and
- e) lyophilizing the pharmaceutical composition of step d) by:
 - a-i) lowering the temperature of the pharmaceutical composition to -40°C ;
 - a-ii) holding the temperature at -40°C for a predetermined time;
 - a-iii) raising the temperature of the solution to 20°C;
 - a-iv) holding the temperature at 20°C for a predetermined time; and
 - a-v) reducing the pressure and holding the temperature at $20\,^{\circ}\text{C}$ for a predetermined time, thereby lyophilizing the pharmaceutical composition;

or

- b-i) lowering the temperature of the pharmaceutical composition to -45°C ;
- b-ii) holding the temperature at -45°C for a predetermined time;
- b-iii) raising the temperature of the solution to -20°C ;
- b-iv) raising the temperature of the solution to 25°C; and
 - b-v) holding the temperature at 25°C for a predetermined time, thereby lyophilizing the pharmaceutical composition.

Claims 28-35. (Canceled)

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36. (Previously Presented) The process of claim 27, wherein

step a-i) is performed within 2 hours;

step a-ii) is performed within 3 hours;

step a-iii) is performed over 13 hours and at a
pressure of 110µbar;

step a-iv) is performed over 13 hours and at a pressure of 110µbar; and

step a-v) is performed over 5 hours and the pressure is reduced to 10µbar.

37. (Original) A lyophilized pharmaceutical composition prepared by the process of claim 27.

Claims 38-46. (Canceled)

47. (Previously Presented) The process of claim 27, wherein

step b-i) is performed within 6 hours;

step b-ii) is performed within 3 hours;

step c-iii) is performed over 19 hours and at a pressure of 150µbar;

step d-iv) is performed over 13 hours and at a pressure of $150\mu bar;$ and

step e-v) is performed over 8 hours and at a pressure of $150\mu bar$.

Claims 48-51. (Canceled)

52. (Currently Amended) A packaged pharmaceutical composition comprised of:

a packaging material; and

a predetermined amount of the lyophilized pharmaceutical

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composition of claim 37.